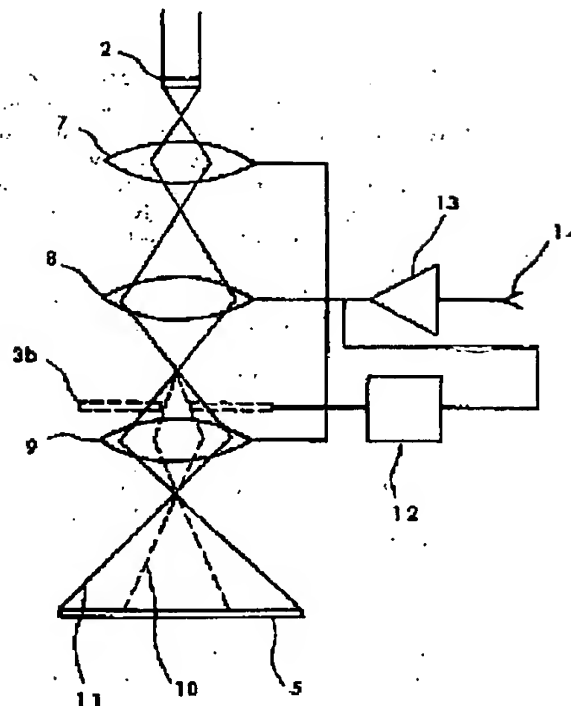


Patent Abstracts of Japan

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 APPLICANT : HITACHI LTD;
 INVENTOR : TAKAHASHI TADANORI;
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 TITLE : DIFFERENTIAL EXHAUST THROTTLE MECHANISM OF ELECTRON MICROSCOPE, ETC.



ABSTRACT : PURPOSE: To provide a mechanism capable of varying a differential exhaust throttle diameter in synchronization with a magnification converting function for the purposes of preventing cutting of the field of view that occurs during observation at low magnification and preventing contamination on samples that poses problems during observation at high magnification.

CONSTITUTION: A movable differential exhaust diaphragm 3b for use in a differential exhaust throttle conversion mechanism is controlled in synchronization with a magnification conversion signal 14 so that cutting 10 of the field of view at low magnification can be prevented. The amount of gas flowing out of a lower exhaust system is reduced by an increase in conductance due to size reduction of the differential exhaust throttle 3b by an amount sufficient to prevent samples from being contaminated by gas released from a film and the like set in the lower exhaust system which poses problems at high magnification.

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